### 1/6 POLYMORPHISMS IN THE FCER1A GENE

AAACAGAAGA ATTAGTAAAG	GAATCCTGGA	GAAAGCCCCT	GCTGTGTATT	
TAAAGGAGAA AGGGAGATCA	TGTTGGGAAA	TTATAATATT	AAAAGTAAAC	100
AAAAGCTAGG AAGTAAAATA	AAATAAATTA	TATGGCCTAG	ATCCCCATAA	
GTAATGGTTT AACTTCTGCC		CTGAGCCAGA	TTAGGGCACA	200
GTAGAGAAAG AGGAGTCTCT	GAAAATGTTT	CCAATTTCGC	TGGTCAGACA	
GCGGATCATC AGTGAATCAG		GTGGATTTAT	GCACTAACTG	300
ATCAGCAGGA AATTAAACAA	GAAAAGCGTT	GGTAGCTCTG	GTGAATCCCA	
AAAGAATTTG GCAGTTGCTA	GCCATGCTCC	TGAATATGTA		400
ATCATATGAC TAAGAGTTTG	ACTTAGGGGT	TAGATTTTAT	GTGTTTGAAC	
CCCAAATTAG TTATTTAATA	GTTGGCACCC	CAAAACAAGT	TACTTAACCT	500
CACTAAGATT CAGTTTTCCT	GTTTATAAAA	TGTAGATAGT	GATAGTATGT	
ACTITATAGG ATTATTGTGA	AAAATAAATG	AAATATCAGA	TTTATTTAGG	600
110111111111111111111111111111111111111		G		
ATAACACCTG GCATATGTTT	GGTATTCAGT	AATTAGTTGC	TGCTGTTTTA	
TTCTGCTCTC CCTTGCATCO		AGTTGTAAAC	TAAATAGTTG	700
C				
TACACAGATT GACAGATTA	GAAAGGCTTG	TGATTGTGCT	AGACCTATGC	
CTCTCTCA CCAGATTCCA	GGTGTATATG	TGGAGGTGGG	ATAGGGAGTG	800
GAGTAAGTGG GTAAATATTA	AATTGCCCAG	TTGGGCACCA	TCCTGAATAT	
TATCTCTAAA GAAAGAAGCA		CAGCTGATGG	GTTAACCAGA	900
TATGATACAG AAAACATTTO	CTTCTGCTTT	TTGGTTTTAA	GCCTATATTT	
C T				
GAAGCCTTAG ATCTCTCCAG	CACAGTAAGC	ACCAGGAGTC	CATGAAGAAG	1000
ATGGCTCCTG CCATGGAAT	CCCTACTCTA	CTGTGTGTAG	CCTTACTGTT	
[exon 2: 1001				
CTTCGGTAAG TAGAGATTC	A ATTACCCCTC	CCAGGGAGGC	CCAAATGAAT	1100
CIICGGIAAG INGIGNIIIO	A			
10	551			
TTGGGGAGCA GCTGGGGTA	G GAACCTTTAC	TGTGGGTGGT	GACTTTTTCT	
ACCACATGTG CAAACTATT	G GGCATTTCCC	: AGGGACTCTG	TAGTGGAGCC	1200
AACCTAGAAA GCAGAGGCA	A GTGGGCTGAG	CAACACCTAA	GGAGGAAGCC	
ACACTGAAAG CTTGGTTCC	T TGCATTTGCT	CTGGCATCTT	CCAGAGTGCA	1300
AATTTCCTAC CAAGGTAAT	G AGGGTAGAGG	; AGAGAAAGAA	GCTCTTTCTT	
CCCTGATTC TCATTCCTG	A AAAGACGGTT	GGTCCTTAAA	ATTCCATGGA	1400
TGTAGATCTT ATCCCCACA	C CCAGATTCT	GTCCTCTGGA	GATAAAGAAG	
ACTGCTGGAC ACTAATGTA	T CCTCTCTGG	A CTTTTGCAGO	TCCAGATGGC	1500
C	A			
Ievon 3: 1490.				
GTGTTAGCAG GTGAGTCCT	C TGTTCTTGT	r cccttggig1	TATCAACATGT	
15	5101			
CTGGGCATTG CTTTCCTCT	C ACTATTTC	T TCGTCCCATO	C ACTTCTGCTT	1600
TCTAATGAGC ATGAATCTG	T TCCTTGGCC	A GACTACTTT	CCTCTCCACC	
T				
TTGCCTTGTC TTTCTTTT	T TCCCTGATT	C ATTGCATTC	r ctcaagtcat	1700
ΨĊΨĊΨĊĊΨĊΨ ĠΨΨΨΤΆĠΤĊ	A ATAACCATG	r ctgttgcaca	A TATACATGIC	
TCATTCTCTC TCCTAGACA	C TTTGGCATG	A TCTCGCTCA	A TAATTACATT	1800
<b>ΣΤΡΣΤΡΣΤΡΑ ΤΤGCCATT</b>	T ATAATTGAG	G ATGCTGAAA	C TCAGTGATIT	
TCTGGTGGTT ACATGGCTA	A GGAACTGGA	T TTCAACGTA	A GTTCCTTGGA	1900
TCTAAGTCCA GTTCTCTTC	T GACTATATC	A CCCTTTTGT	r atcaccatgt	
ATCTACTTCT TTGGTCTC	G TTCAAATTT	G CACTACATC	C CCTTGTTCCA	2000
GGAAGCCATT CAAGACTGA	AC TTTCTTAGT	G CCTCTCACT	A CTTTCTGGAA	
GGAAGCCAII CAAGIGIGI				

,			2/6		
СТСАСАТАТС	TTTTTCACTC	TGTATATACT	TACAATTAAA	ТАСТСАТААА	2100
TATTCAGAGC	TTGGAGAAAC		ATCCAGTCCA		2100
CCATCCATAA	TTCACTCATT		ATAAATATTT		2200
TGGTTGAACA	TGGCAGACAG	TGTTTCTACC	TCAAAAGAGA		2200
CATTTACAGA		AAATTAACAG	AAGTAGAGTG		2300
AATCACATAG	TGAATTGGTT	TCTTTGTTTT	TAAATCTCCT		2300
CCTGTCTTTC	TCCCTGTGTT	GGGCGTTCCC		ATACTAATTT	2400
CTCCTTCCCC	TAGAAATCAA			AGAATAAGGA	2400
CICCIICCC	INGAAAICAA	G	INICACCANC	AUDALIAAUA	
САССТТСАСС	ACTGATTGTC	AGAATATTGC	TTCGTTTGTA	СТТТТААССС	2500
TAGACAGTTT		TTTTTCTCTC	TACATGTCTT		2300
	AAGTCCCTCA		GTCTCCTTGA		2600
	4: 2564	Orancerano	GICICCITON	ACCCICCAIG	2000
_	TTTAAAGGAG	AGAATGTGAC	TCTTACATGT	AATGGGAACA	
	AGTCAGTTCC			CAGCCTTTCA	2700
	ATTCAAGTTT	GAATATTGTG	AATGCCAAAT	TTGAAGACAG	2700
GANGAGACAA	ATTOMOTTE	GAAIAIIGIG	G	TIGANGACAG	
TGGAGAATAC	AAATGTCAGC	ACCAACAAGT	TAATGAGAGT	GAACCTGTGT	2800
1001101111110	188110101100	1100111011101	A	0.1.0010101	2000
ACCTGGAAGT	CTTCAGTGGT	AAGTTCCAGG		TACAGATCTC	
11001001101	281		01111110011111	11101101111011	
TCATGTGAGG		CTGAAGATGG	GAAAAAACAG	GTTATTCCAA	2900.
		GATTCAAGGC			2300.
000111100110	71007107101	011110111000	C	1711107100001	
GCATTGGCTG	GGCACAGTGG	CTCACGCCTG	_	ACTTTGGGAG	3000
				А	
GCTGAGGCAG	GTGGATCACG	AGGTCAGGAG	ATCGAGACCA		
301011000110	010011101100	1100101100110	111 0 0110110 011	A	
ATGGTGAAAC	CCCATCTCTG	СТАВАВАВТА	TATATATATA		3100
GGCGTAGTGG	TGGGCACCTG	TAGTCCCAGG		GCTGAGGCAG	3200
GAGAATGGTG		AGGTGGAGGT	TGCAGTGAGC	TGAGATCACG	3200
CCACTGCCCT	CCAGCCTGGG	CTACAGAGCA	AGACTCCGTC	TCAAAAAATA	0200
AATAAATAAA	TAAAAAAGAC	CCCTGCATCT		ACCCCCTTCC	3300
	CTTGTATGCC	TTCTTTCAAT	ATTCTAGTCA	TCTCTCAATA	3300
	ACCCTATTTT	CCTCTATCTT		ATTCAGGTAT	3400
ATATTATGTG	GTCAAACAGC	ATGACATATA	TGTGAACATT	TCAAAGAGCT	3100
	AATAGGATCA		CTTAAAGTTT	TGCTCTGCAT	3500
		AATATTAGGT			3300
		ATGTCCTCTG			3600
		TATCACTCCT			5000
		TTAATTAGCA			3700
		ATAGGTCTCT			3.00
		TCAACCTCCA			3800
		CTTCTTTATT			
		TAAATTAATT			3900
		TTTAATGAAT			3500
		TTCTTGTCTT			4000
		CAACTCCTAA			1000
		AATAGAATGT			4100
		GTATGGGAAG			4100
		TTATACATGT			4200
		AACTGGGAAG			4200
		AGCTAAAATT			4300
		TAGCAACAGA			4300
LICCCCIAAC	TANCINGANC	TAUCAACAGA	TOTALOIGNAM	CONTICIOR	

			3/6		
CTTTCAAGTG	TTCCATGTAT	GGACTCATCA	•	AGAGGCTTTG	4400
	CTGACTTTTC				1100
	AGCATTATTT		AAAAATCCAC		4500.
AAAAAGTGAG	TTAATGATAA		CTGACACATG		4500.
GGCTCTCTTT	TCTCTATTCA		CTTCATTTAT	TGTTAAATAA	4600
A	ICICIATICA	TICICICICI	CIICAIIIAI	IGIIAAAIAA	4000
	GAATGTTCTT	CACACTCCCT	CCTCCTTCAC	CCCTCTCTC	
		CAGACIGGCI	GCTCCTTCAG	GCCTCTGCTG	
<b>.</b>	5: 4624	CCCCMCMMCC	mca comecca	mccmmcc» cc	4700
					4700
AACTGGGATG		GATCTATTAT			4000
GTACTGGTAT		ACATCTCCAT			4800
ACAGTGGAAC	CTACTACTGT		TGTGGCAGCT	GGACTATGAG	
		T			4000
TCTGAGCCCC	TCAACATTAC		GGTGAGTTGG	TAAAGGAAAG	4900
	488	•			
GAAAAGCATC		GAAGGAAGAG			
GTTGCAGCTT	GTAGAAGGGG	GGCACCTGTG	ATACACTGGA		5000
		**		T	
GACTTGCAAT	GAGGAGACCT				•
CAAAGCCTTG	ACTTGTTAAA		AATACCTGCT	TGCACTATGA	5100
		С	•		
AATTTTTATG	AAGATTAATG	TGGTAATATT	TGTGAAATGA	CTTTGTAAAC	
TGTTAAGCAC	TACCCAAGCA	TAACAGATTG	TGATTACTAT	TTTGATCTCA	5200
AAGTCATCTG	TTGCTCCTGG	GGGAACACTT	ATATTTATCA	AATTGAAAAA	
AAGTTTCAAA	GTTGAATGAA	GAAAGGATAT	AAAGAGCTTG	AGGAGCCCAT	5300
TCCAGCTTAG	GAGGGCTGGG	AAAGGAAACC	AGCAAGTCAG	TAAGCTGTGT	
GCCTGTGTAT	TGAGGGAGGA	GGGAATGGAC	TTGATATGGA	GAGGGTAGGG	5400
AGGTGGACTG	CCTCTATGGC	CTGTAAGAAA	AACTGCTCTC	TCCAAACTCT	
TTATAAGAGA	GGGAGCCTGT	GAAGTATTCA	CTTTTGAAGG	AGAAAGTTAG	5500
ACTTTTCCTT	CACACACTTT	GTACATAATA	ATGTTTAAAA	AAGCATGAGG	
TCAAAATACA	TAATTAAGTC	CTAGCAGTTC	TCTGTTAACT	AATTTGAGAC	5600
TGAAGTGCTA	TGTACTTGTC	TCTAGGCTTC	CAGTATCTTC	ATCTGTAAAA	
CAGAATATTT	GGTCTAGATT	CCATTAGAAT	CATTTGATAA	CTTAAAAAAT	5700
ATATTGATGC	TCATGTCTCA	TTTCTTGAGA	TTCTGATTTA	ATTGGTTTGG	
GGTGCAGCCT	GGGTATACGT	ATTTTTCATA	GGTCTTTCAC	ATAATGGTAA	5800
	ATATTGAGAA	TCACTTGTCT	AGGTGATCTT	TAAATGATTT	
CTGGATGTAA	TATTCTGAGG	CTCTATAATT	TGAGACTAAT	CACAAAAATC	5900
GGTACAGTTT	ATAAACAGAC	TAACAGAACC	ACAAAATAAT	AGAATTGGAA	
	CTAGTGCAAT				6000
	GATTGAGTAA				
	ACCCCTTAAT				6100
	TATCTTTCCT				0100
	TTAAGAGGAA				6200
	GCAACTCAAC				0200
	CACATCACGC				6300
	ATGAAACTCT				0300
	ATTGCATCTG				6400
	6: 6384	IGIICCACIA	CAGCICCGCG		0400
	TTTTTATCCC	አመመርመመርርመር	CTCNTTCTCT	TTTCCTCTCTC	
					6500
	TTTATCTCAA				0500
TTAAGAGAAC	CAGGAAAGGC	TTCAGACTTC		TCCTAAGCCA	
7700007777	3 C 3 3 C 5 C 5 C 7 C 7	maammacmc=	A	CC3 3 C3 DD 2 C	6600
AACCCCAAAA	ACAACTGATA		AGAAATATTT	GCAACATTAG	6600
	656	0]			

### 4/6

	TTTTTTTCCA	GCATCAGCAA	TTGCTACTCA	ATTGTCAAAC	ACAGCTTGCA	
			С		G	
	ATATACATAG	AAACGTCTGT	GCTCAAGGAT	TTATAGAAAT	GCTTCATTAA	6700
	ACTGAGTGAA	ACTGGTTAAG	TGGCATGTAA	TAGTAAGTGC	TCAATTAACA	
		A				•
	TTGGTTGAAT	AAATGAGAGA	ATGAATAGAT	TCATTTATTA	GCATTTGTAA	6800
	AAGAGATGTT	CAATTTCAAT	AAAATAAATA	TAAAACCATG	TAACAGAATG	
	CTTCTGAGTA	TTCAAGGCTT	GCTAGTTTGT	TTGTTTGTTT	TCTACTAAAG	6900
	GCAAGGACCA	TGAAGTTCTA	GATTGGAAAT	GTCCTCTCTT	GACTATTGCA	
	AGTGCGATCT	AGGAATGAAA	AGACATAGGA	GGATGCCAGT	GAGGTGGATC	7000
	ATTTTTATGC	TTCTTCTTCA	GCTTACTAAA	TATGAACTTT	CAGTTCTTGG	
	CAGAATCAGG	GACAGTCTCA	AGACATAGGA	CTCTCAGGAT	GAAGTAGAGT	7100
	CCAGGATTCC	TCTGTGATTG	TTTTGCCCCT	CCCAAATTTA	TATCTTGAAC	
	TTATGTCTTG	TATCTTTATA	CAGCACCTGA	ACCAAGCATT	TTGGAGAAAT	7200
	TCCAGCTAAT	AATAATAACC	AAAACCTTCG	GCTCTGAAAA	CAGTCCAGGA	
!	CTGAATAAGA	TCTTGGGCAA	AAGAACTAGA	CAGTTTTGGT	TTATTTTCCC	7300
	TTTCATTTTA	TGTCTTCATC	ATAGTCATTG	GAGGCTCATT	CTTCTTGTCA	
	TGGAGTAAAT	GGGATTAAAG	TT			7372

## 5/6 POLYMORPHISMS IN THE CODING SEQUENCE OF FCER1A

* # C C C # C C = C	~~~~~~	~~~~~~~~~~			
		CCCTACTCTA	CTGTGTGTAG	CCTTACTGTT	
CTTCGCTCCA	GATGGCGTGT	TAGCAGTCCC	TCAGAAACCT	AAGGTCTCCT	100
TGAACCCTCC	ATGGAATAGA	ATATTTAAAG	GAGAGAATGT	GACTCTTACA	
TGTAATGGGA	ACAATTTCTT	TGAAGTCAGT	TCCACCAAAT	GGTTCCACAA	200
TGGCAGCCTT	TCAGAAGAGA	CAAATTCAAG	TTTGAATATT	GTGAATGCCA	
AATTTGAAGA	CAGTGGAGAA	TACAAATGTC	AGCACCAACA	AGTTAATGAG	300
G	•				
AGTGAACCTG	TGTACCTGGA	AGTCTTCAGT	GACTGGCTGC	TCCTTCAGGC	
A			·		
CTCTGCTGAG	GTGGTGATGG	AGGGCCAGCC	CCTCTTCCTC	AGGTGCCATG	400
GTTGGAGGAA	CTGGGATGTG	TACAAGGTGA	TCTATTATAA	GGATGGTGAA	
GCTCTCAAGT	ACTGGTATGA	GAACCACAAC	ATCTCCATTA	CAAATGCCAC	500
AGTTGAAGAC	AGTGGAACCT	ACTACTGTAC	GGGCAAAGTG	TGGCAGCTGG	,
		T			
ACTATGAGTC	TGAGCCCCTC	AACATTACTG	TAATAAAAGC	TCCGCGTGAG	600
AAGTACTGGC	TACAATTTTT	TATCCCATTG	TTGGTGGTGA	TTCTGTTTGC	
TGTGGACACA	GGATTATTTA	TCTCAACTCA	GCAGCAGGTC	ACATTTCTCT	700
TGAAGATTAA	GAGAACCAGG	AAAGGCTTCA	GACTTCTGAA	CCCACATCCT	
				A	
AAGCCAAACC	CCAAAAACAA	CTGA			774

# The first fi

# 6/6 ISOFORMS OF THE FCER1A PROTEIN

MAPAMESPTL	LCVALLFFAP	DGVLAVPQKP	KVSLNPPWNR	IFKGENVTLT	
CNGNNFFEVS	STKWFHNGSL	SEETNSSLNI	VNAKFEDSGE	YKCQHQQVNE	100
			R		
SEPVYLEVFS	DWLLLQASAE	VVMEGQPLFL	RCHGWRNWDV	YKVIYYKDGE	
N					
ALKYWYENHN	ISITNATVED	SGTYYCTGKV	WQLDYESEPL	NITVIKAPRE	200
		M			
KYWLQFFIPL	LVVILFAVDT	GLFISTQQQV	TFLLKIKRTR	KGFRLLNPHP	
				K	
KPNPKNN			•		257
	CNGNNFFEVS SEPVYLEVFS N ALKYWYENHN KYWLQFFIPL	CNGNNFFEVS STKWFHNGSL SEPVYLEVFS DWLLLQASAE N ALKYWYENHN ISITNATVED KYWLQFFIPL LVVILFAVDT	CNGNNFFEVS STKWFHNGSL SEETNSSLNI SEPVYLEVFS DWLLLQASAE VVMEGQPLFL N ALKYWYENHN ISITNATVED SGTYYCTGKV M KYWLQFFIPL LVVILFAVDT GLFISTQQQV	CNGNNFFEVS STKWFHNGSL SEETNSSLNI VNAKFEDSGE R SEPVYLEVFS DWLLLQASAE VVMEGQPLFL RCHGWRNWDV N ALKYWYENHN ISITNATVED SGTYYCTGKV WQLDYESEPL M KYWLQFFIPL LVVILFAVDT GLFISTQQQV TFLLKIKRTR	SEPVYLEVFS DWLLLQASAE VVMEGQPLFL RCHGWRNWDV YKVIYYKDGE N ALKYWYENHN ISITNATVED SGTYYCTGKV WQLDYESEPL NITVIKAPRE M KYWLQFFIPL LVVILFAVDT GLFISTQQQV TFLLKIKRTR KGFRLLNPHP K